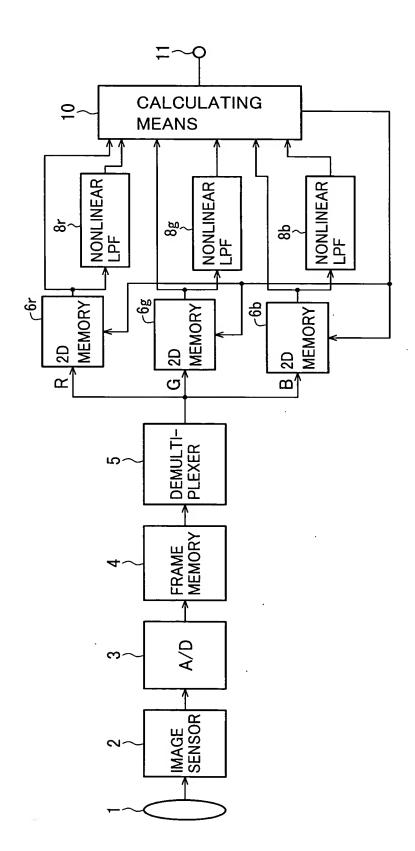App No.: NEW
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FIG.1

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FIG.2

→H

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	R	G	R	G	R	G	R
j−2	G	B	G	B	G	B	G
j−1	R	G	R	G	R	G	R
j	G	B	G	B	G	B	G
j+1	R	G	R	G	R	G	R
j+2	G	B	G	B	G	B	G
j+3	R	G	R	G	R	G	R

↓
V

FIG.3

→H

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	R		R		R		R
j−2							
j−1	R		R		R		R
j							
j+1	R		R		R		R
j+2							
j+3	R		R		R		R

↓
V

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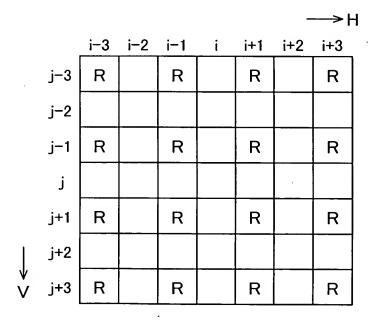Title: PIXEL SIGNAL PROCESSING APPARATUS AND PIXEL SIGNAL
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FIG.4

$\longrightarrow$ H

	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3		G		G		G	
j-2	G		G		G		G
j-1		G		G		G	
j	G		G		G		G
j+1		G		G		G	
j+2	G		G		G		G
j+3		G		G		G	

$\downarrow$
V

FIG.5

$\longrightarrow$ H

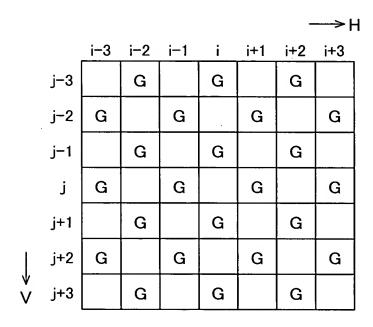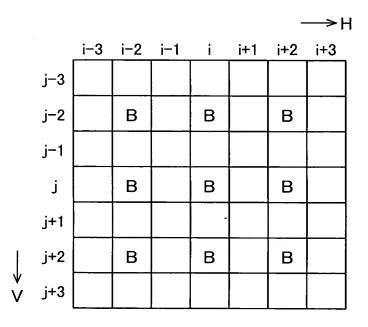|	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3							
j-2		B		B		B	
j-1							
j		B		B		B	
j+1							
j+2		B		B		B	
j+3							

$\downarrow$
V

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FIG.6

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	RNF	RNF	RNF	RNF	RNF	RNF	RNF
j−2	RNF	RNF	RNF	RNF	RNF	RNF	RNF
j−1	RNF	RNF	RNF	RNF	RNF	RNF	RNF
j	RNF	RNF	RNF	RNF	RNF	RNF	RNF
j+1	RNF	RNF	RNF	RNF	RNF	RNF	RNF
j+2	RNF	RNF	RNF	RNF	RNF	RNF	RNF
j+3	RNF	RNF	RNF	RNF	RNF	RNF	RNF

FIG.7

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	GNF	GNF	GNF	GNF	GNF	GNF	GNF
j−2	GNF	GNF	GNF	GNF	GNF	GNF	GNF
j−1	GNF	GNF	GNF	GNF	GNF	GNF	GNF
j	GNF	GNF	GNF	GNF	GNF	GNF	GNF
j+1	GNF	GNF	GNF	GNF	GNF	GNF	GNF
j+2	GNF	GNF	GNF	GNF	GNF	GNF	GNF
j+3	GNF	GNF	GNF	GNF	GNF	GNF	GNF

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FIG.8

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	BNF	BNF	BNF	BNF	BNF	BNF	BNF
j−2	BNF	BNF	BNF	BNF	BNF	BNF	BNF
j−1	BNF	BNF	BNF	BNF	BNF	BNF	BNF
j	BNF	BNF	BNF	BNF	BNF	BNF	BNF
j+1	BNF	BNF	BNF	BNF	BNF	BNF	BNF
j+2	BNF	BNF	BNF	BNF	BNF	BNF	BNF
j+3	BNF	BNF	BNF	BNF	BNF	BNF	BNF

FIG.9

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FIG.10

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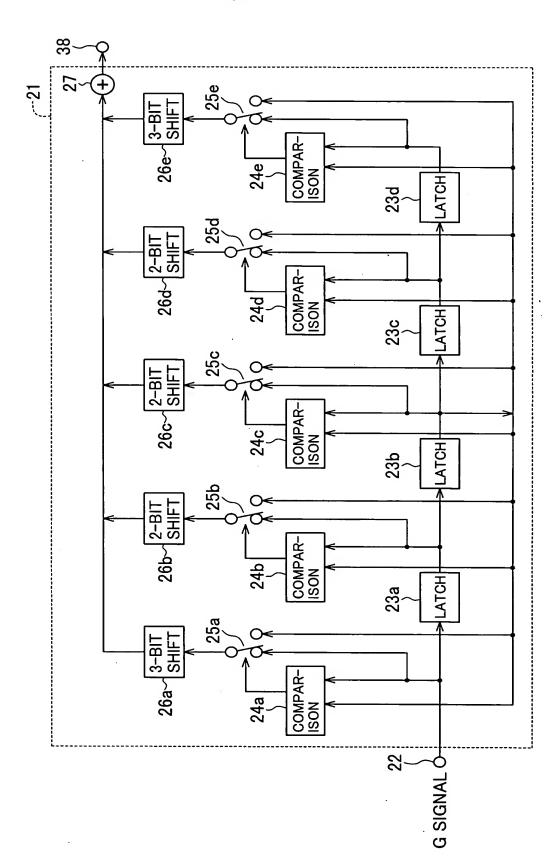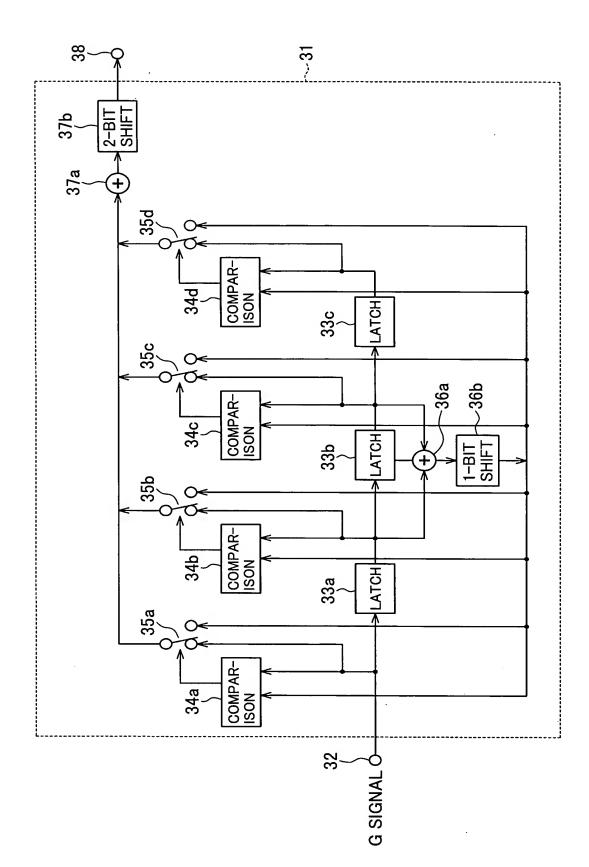
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FIG.11

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FIG.12

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3		G		G		G	
j−2	G		G		G		G
j−1		G		G		G	
j	G		G		G		G
j+1		G		G		G	
j+2	G		G		G		G
j+3		G		G		G	

FIG.13

	i−5	i−4	i−3	i−2	i−1	i	i+1	i+2	i+3
j−4	G		G		G		G		G
j−3		G		G		G		G	
j−2	G		G		G		G		G
j−1		G		G		G		G	
j	G		G		G		G		G
j+1		G		G		G		G	
j+2	G		G		G		G		G
j+3		G		G		G		G	
j+4	G		G		G		G		G

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FIG.14

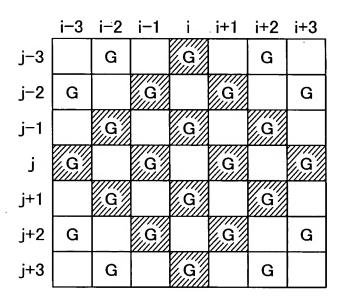|	i−3	i−2	i−1	i	i+1	i+2	i+3	i+4
j−3	R		R		R		R	
j−2								
j−1	R		R		R		R	
j								
j+1	R		R		R		R	
j+2								
j+3	R		R		R		R	
j+4								

FIG.15

	i−4	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3		R		R		R		R
j−2								
j−1		R		R		R		R
j								
j+1		R		R		R		R
j+2								
j+3		R		R		R		R
j+4								

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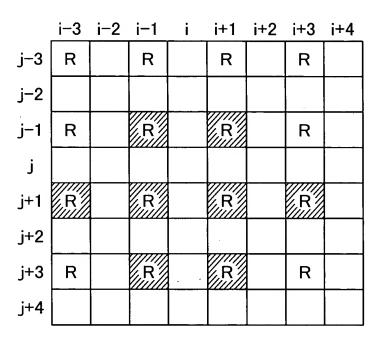
FIG.16

	i-3	i-2	i-1	i	i+1	i+2	i+3	i+4
j-3	R		R		R		R	
j-2								
j-1	R		R		R		R	
j								
j+1	R		R		R		R	
j+2								
j+3	R		R		R		R	
j+4								

FIG.17

	i-4	i-3	i-2	i-1	i	i+1	i+2	i+3
j-3		R		R		R		R
j-2								
j-1		R		R		R		R
j								
j+1		R		R		R		R
j+2								
j+3		R		R		R		R
j+4								

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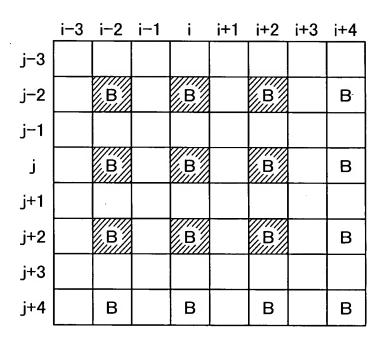
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FIG.18

	i−3	i−2	i−1	i	i+1	i+2	i+3	i+4
j−3								
j−2		B		B		B		B
j−1								
j		B		B		B		B
j+1								
j+2		B		B		B		B
j+3								
j+4		B		B		B		B

FIG.19

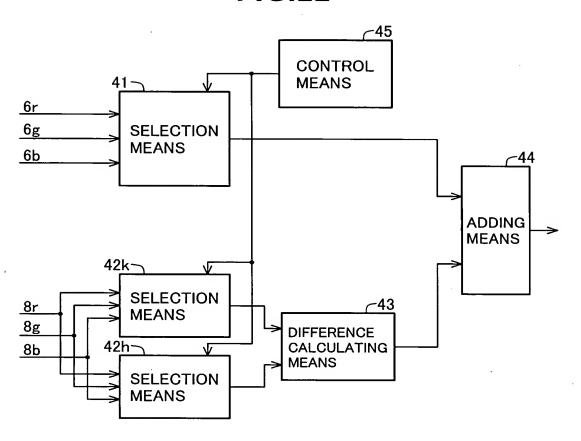|	i−4	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3								
j−2	B		B		B		B	
j−1								
j	B		B		B		B	
j+1								
j+2	B		B		B		B	
j+3								
j+4	B		B		B		B	

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FIG.20

	i−3	i−2	i−1	i	i+1	i+2	i+3	i+4
j−3								
j−2		B		B		B		B
j−1								
j		B		B		B		B
j+1								
j+2		B		B		B		B
j+3								
j+4		B		B		B		B

FIG.21

	i−4	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3								
j−2	B		B		B		B	
j−1								
j	B		B		B		B	
j+1								
j+2	B		B		B		B	
j+3								
j+4	B		B		B		B	

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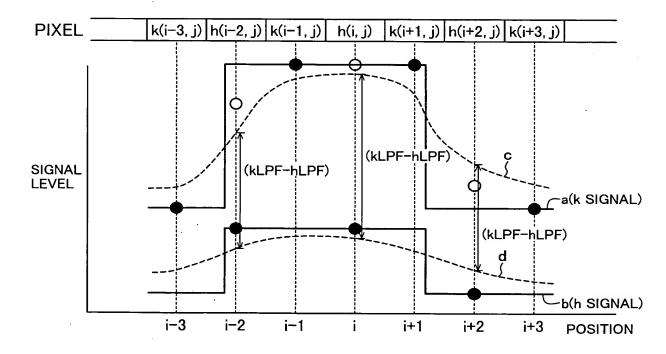
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FIG.22

FIG.23

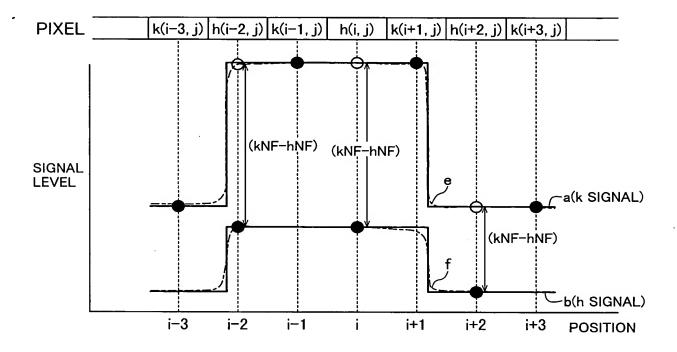App No.: NEW   Docket No.: 1190-0629PUS1
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FIG.24

FIG.25

FIG.26
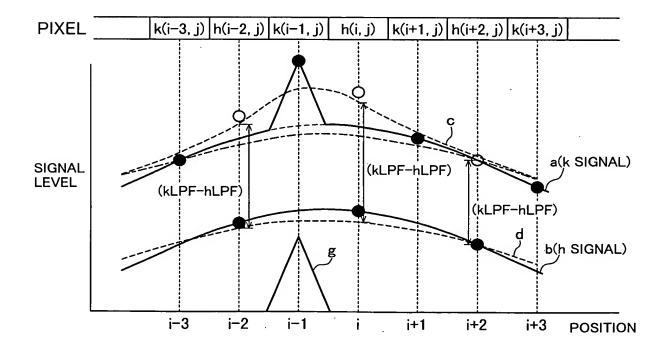
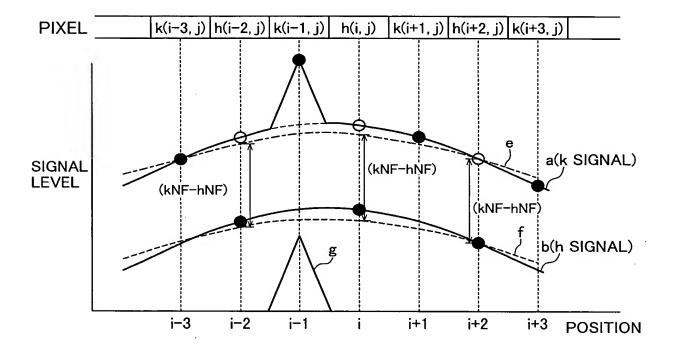App No.: NEW   Docket No.: 1190-0629PUS1
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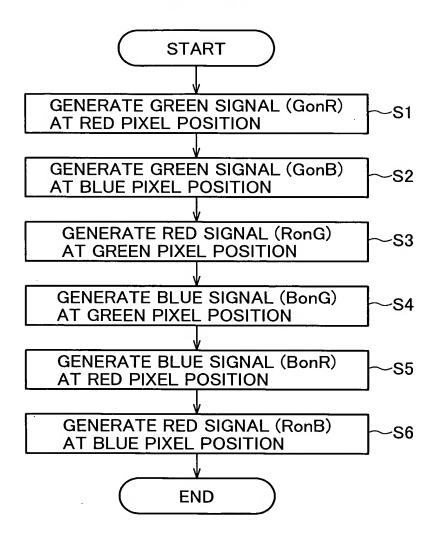
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FIG.27

```
          ┌─────────────┐
          │    START    │
          └─────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ GENERATE GREEN SIGNAL (GonR)     │──S1
│ AT RED PIXEL POSITION            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ GENERATE GREEN SIGNAL (GonB)     │──S2
│ AT BLUE PIXEL POSITION           │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ GENERATE RED SIGNAL (RonG)       │──S3
│ AT GREEN PIXEL POSITION          │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ GENERATE BLUE SIGNAL (BonG)      │──S4
│ AT GREEN PIXEL POSITION          │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ GENERATE BLUE SIGNAL (BonR)      │──S5
│ AT RED PIXEL POSITION            │
└─────────────────────────────────┘
                 │
                 ▼
┌─────────────────────────────────┐
│ GENERATE RED SIGNAL (RonB)       │──S6
│ AT BLUE PIXEL POSITION           │
└─────────────────────────────────┘
                 │
                 ▼
          ┌─────────────┐
          │     END     │
          └─────────────┘
```

FIG.28

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	gr	G	gr	G	gr	G	gr
j−2	G		G		G		G
j−1	gr	G	gr	G	gr	G	gr
j	G		G		G		G
j+1	gr	G	gr	G	gr	G	gr
j+2	G		G		G		G
j+3	gr	G	gr	G	gr	G	gr

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FIG.29

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	gr	G	gr	G	gr	G	gr
j−2	G	gb	G	gb	G	gb	G
j−1	gr	G	gr	G	gr	G	gr
j	G	gb	G	gb	G	gb	G
j+1	gr	G	gr	G	gr	G	gr
j+2	G	gb	G	gb	G	gb	G
j+3	gr	G	gr	G	gr	G	gr

FIG.30

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	R	rg	R	rg	R	rg	R
j−2	rg		rg		rg		rg
j−1	R	rg	R	rg	R	rg	R
j	rg		rg		rg		rg
j+1	R	rg	R	rg	R	rg	R
j+2	rg		rg		rg		rg
j+3	R	rg	R	rg	R	rg	R

FIG.31

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3		bg		bg		bg	
j−2	bg	B	bg	B	bg	B	bg
j−1		bg		bg		bg	
j	bg	B	bg	B	bg	B	bg
j+1		bg		bg		bg	
j+2	bg	B	bg	B	bg	B	bg
j+3		bg		bg		bg	

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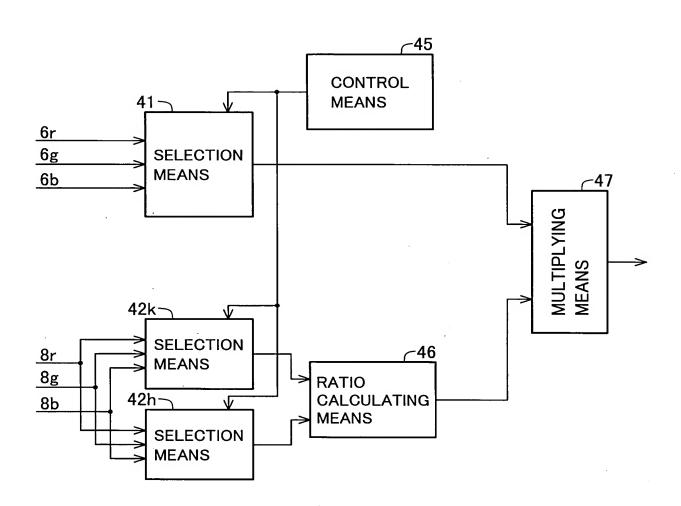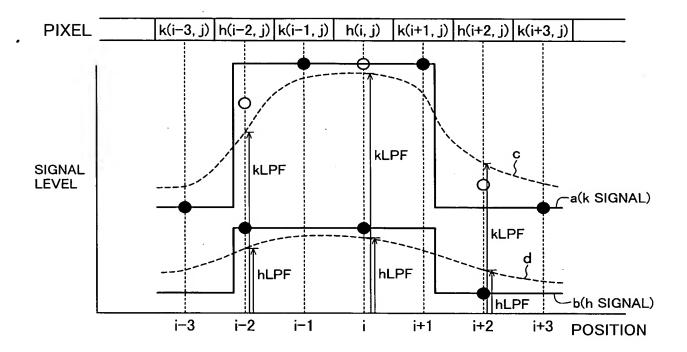NEW SHEET   Sheet 18 of 21

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FIG.32

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	R	rg	R	rg	R	rg	R
j−2	rg	rb	rg	rb	rg	rb	rg
j−1	R	rg	R	rg	R	rg	R
j	rg	rb	rg	rb	rg	rb	rg
j+1	R	rg	R	rg	R	rg	R
j+2	rg	rb	rg	rb	rg	rb	rg
j+3	R	rg	R	rg	R	rg	R

FIG.33

	i−3	i−2	i−1	i	i+1	i+2	i+3
j−3	br	bg	br	bg	br	bg	br
j−2	bg	B	bg	B	bg	B	bg
j−1	br	bg	br	bg	br	bg	br
j	bg	B	bg	B	bg	B	bg
j+1	br	bg	br	bg	br	bg	br
j+2	bg	B	bg	B	bg	B	bg
j+3	br	bg	br	bg	br	bg	br

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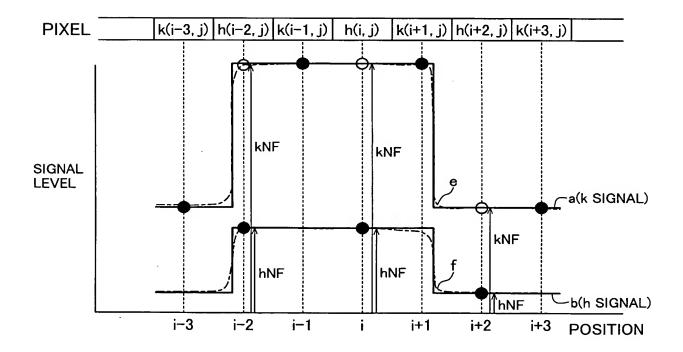
FIG.34

FIG.35

FIG.36

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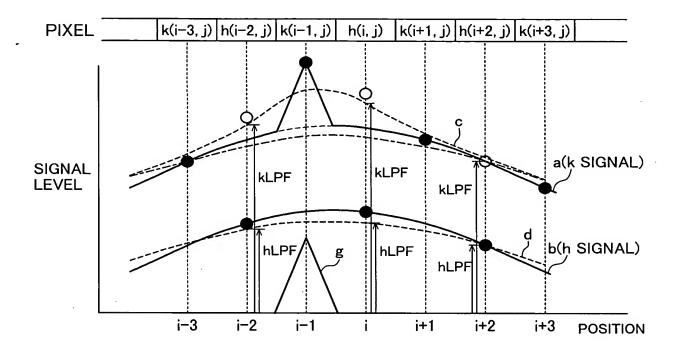   PROCESSING METHOD
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FIG.37

FIG.38